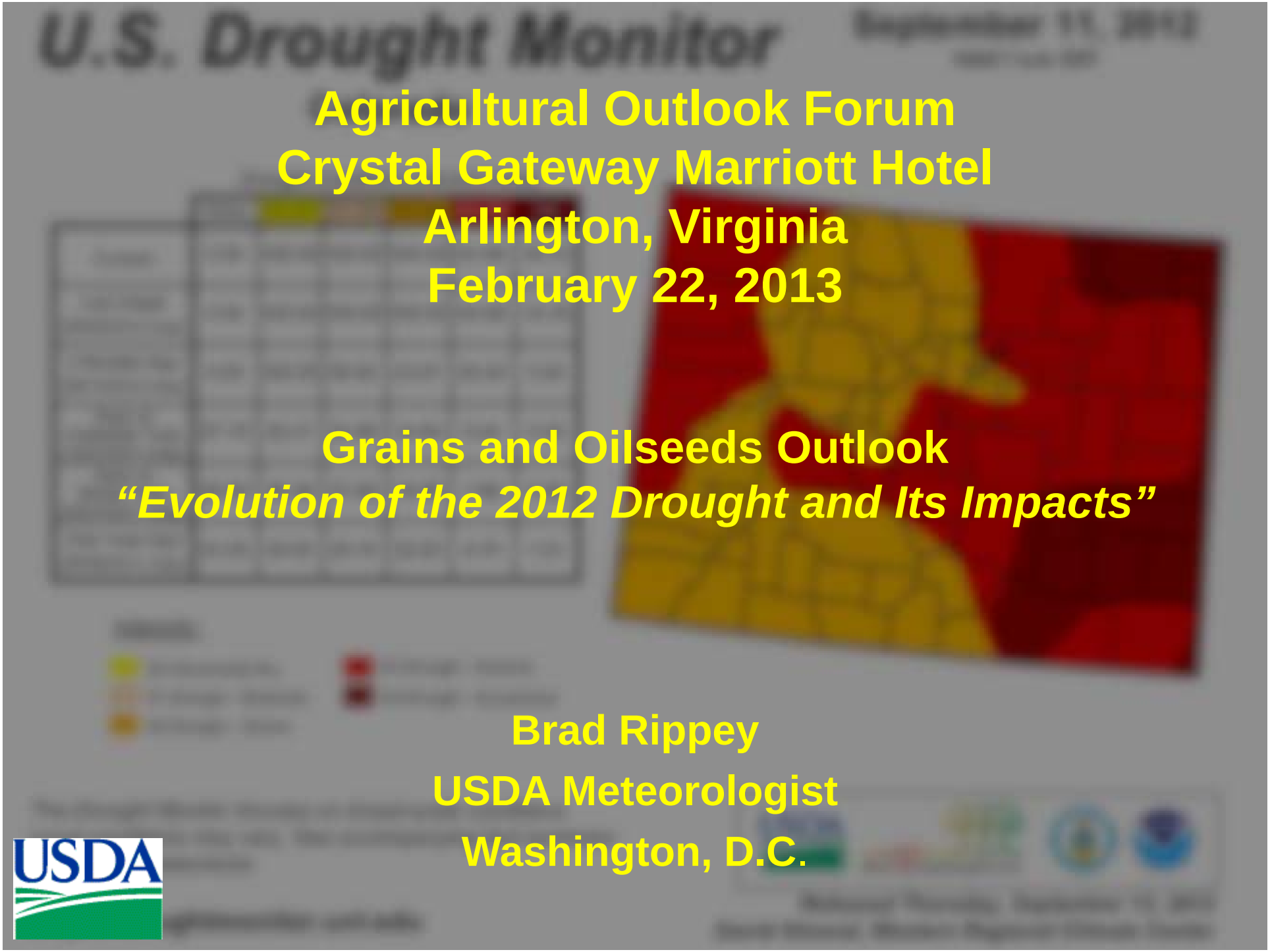
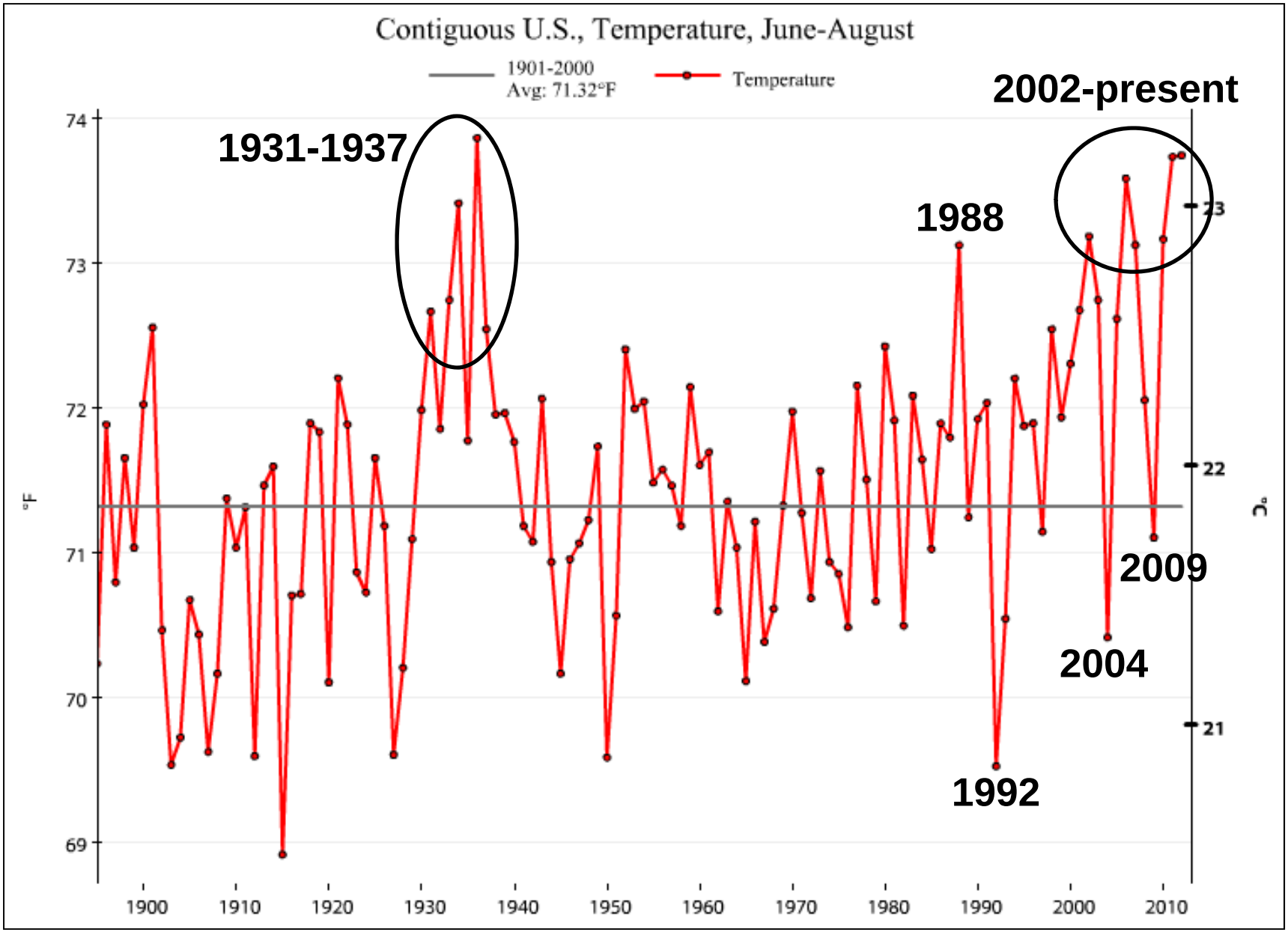


Agricultural Outlook Forum
Crystal Gateway Marriott Hotel
Arlington, Virginia
February 22, 2013

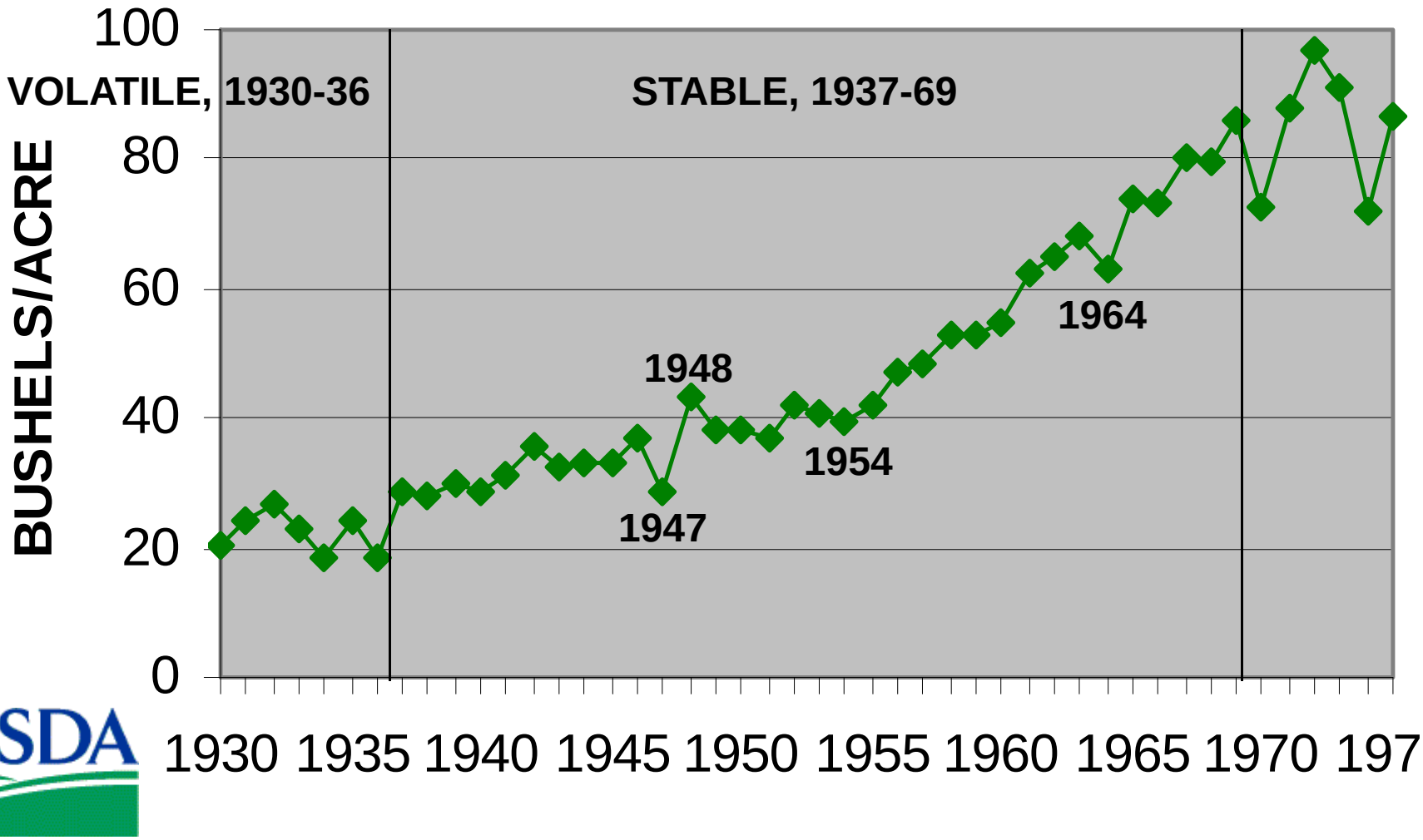
Grains and Oilseeds Outlook
"Evolution of the 2012 Drought and Its Impacts"

Brad Rippey
USDA Meteorologist
Washington, D.C.

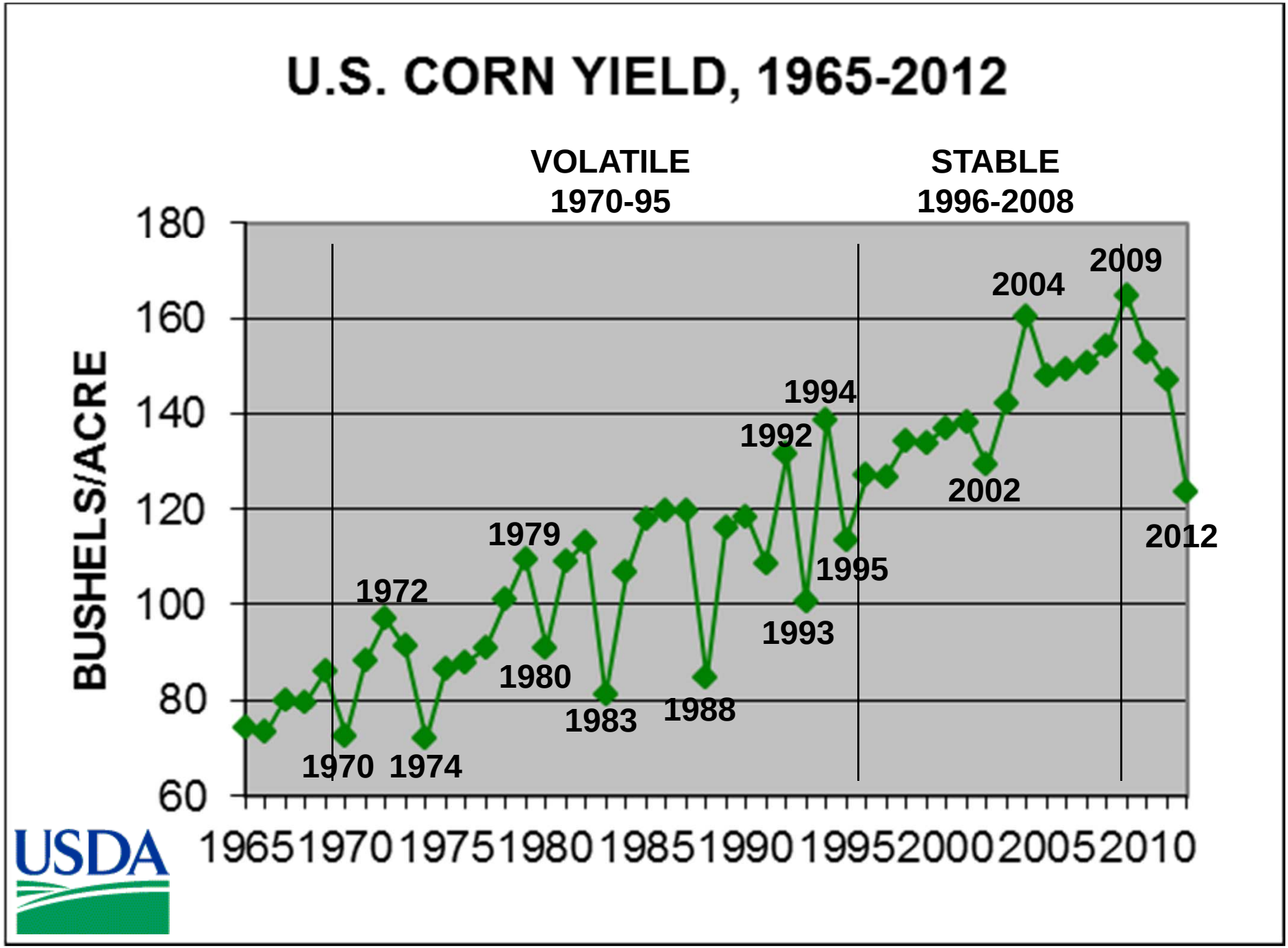
U.S. Summer Average Temperature, 1895-2012



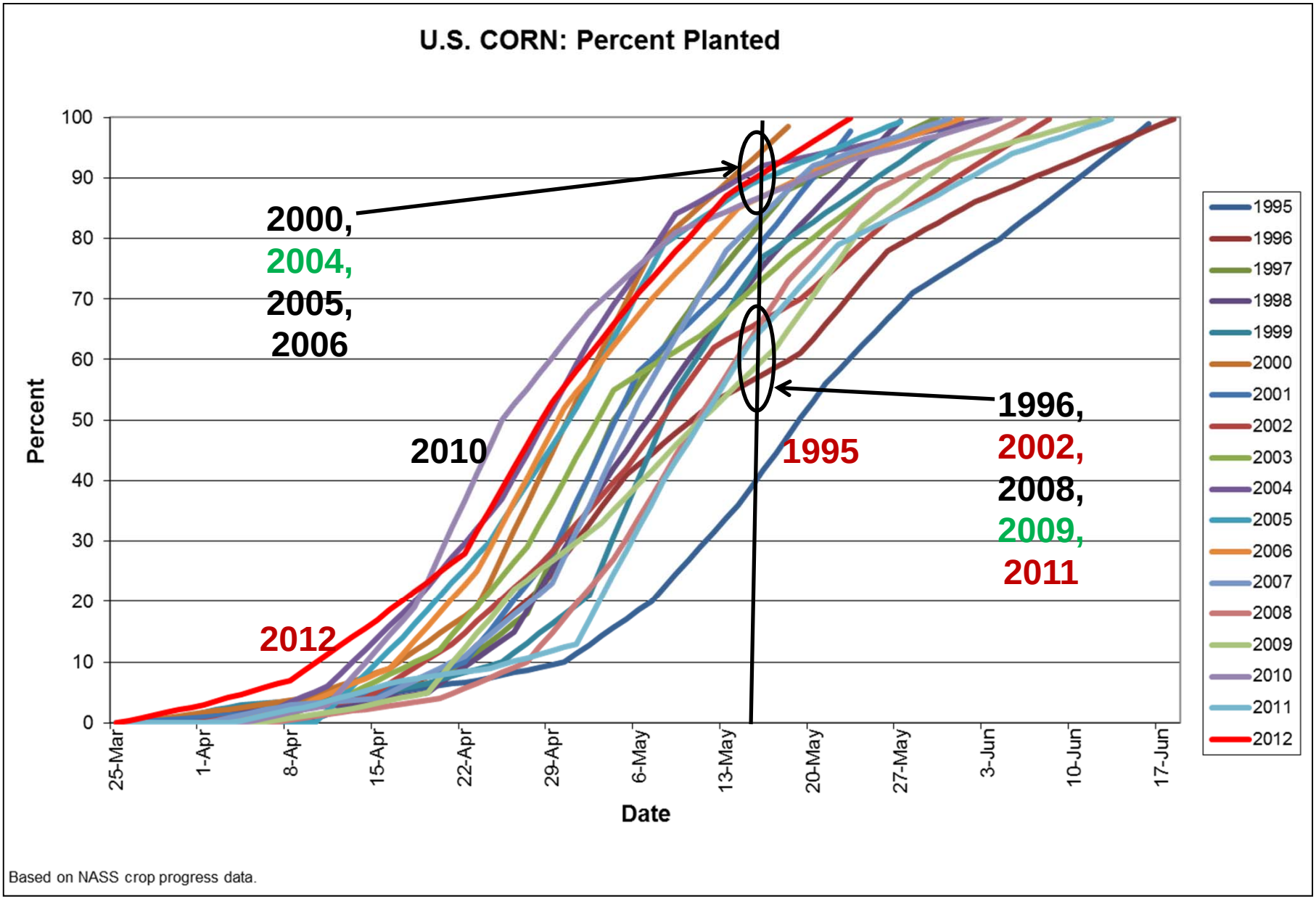
U.S. CORN YIELD, 1930-1975



USDA


U.S. CORN YIELD, 1965-2012
VOLATILE
1970-95
STABLE
1996-2008
BUSHELS/ACRE
180
160
140
120
100
80
60
1970
1974
1972
1979
1980
1983
1988
1992
1994
1993
1995
2002
2004
2009
2012
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
USDA

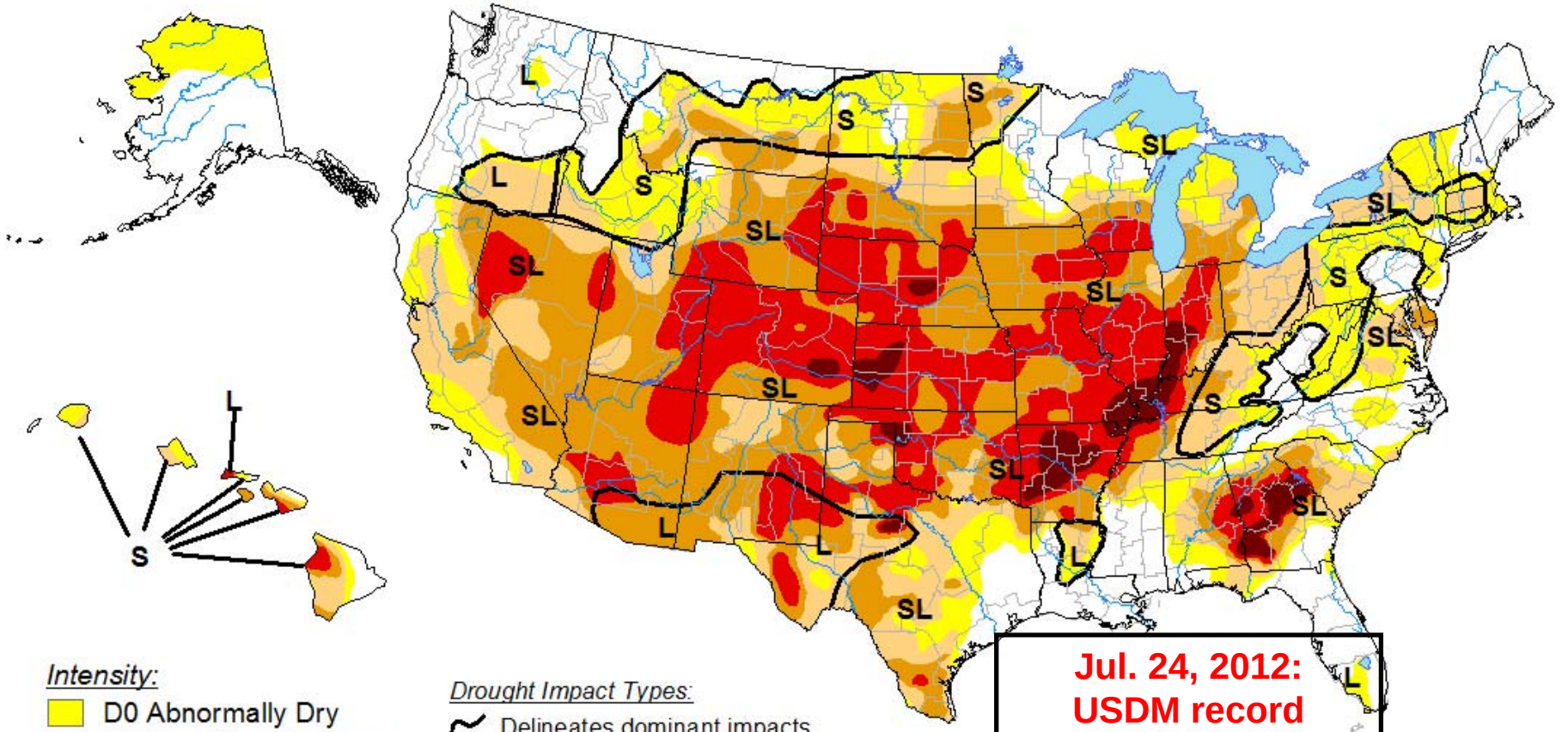
U.S. Corn Planting Progress, 1995-2012



Based on NASS crop progress data.

U.S. Drought Monitor

July 24, 2012
Valid 7 a.m. EDT



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

~ Delineates dominant impacts

S = Short-Term, typically <6 months (e.g. agriculture, grasslands)

L = Long-Term, typically >6 months (e.g. hydrology, ecology)

Jul. 24, 2012: USDM record with 63.86% of CONUS in drought.

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

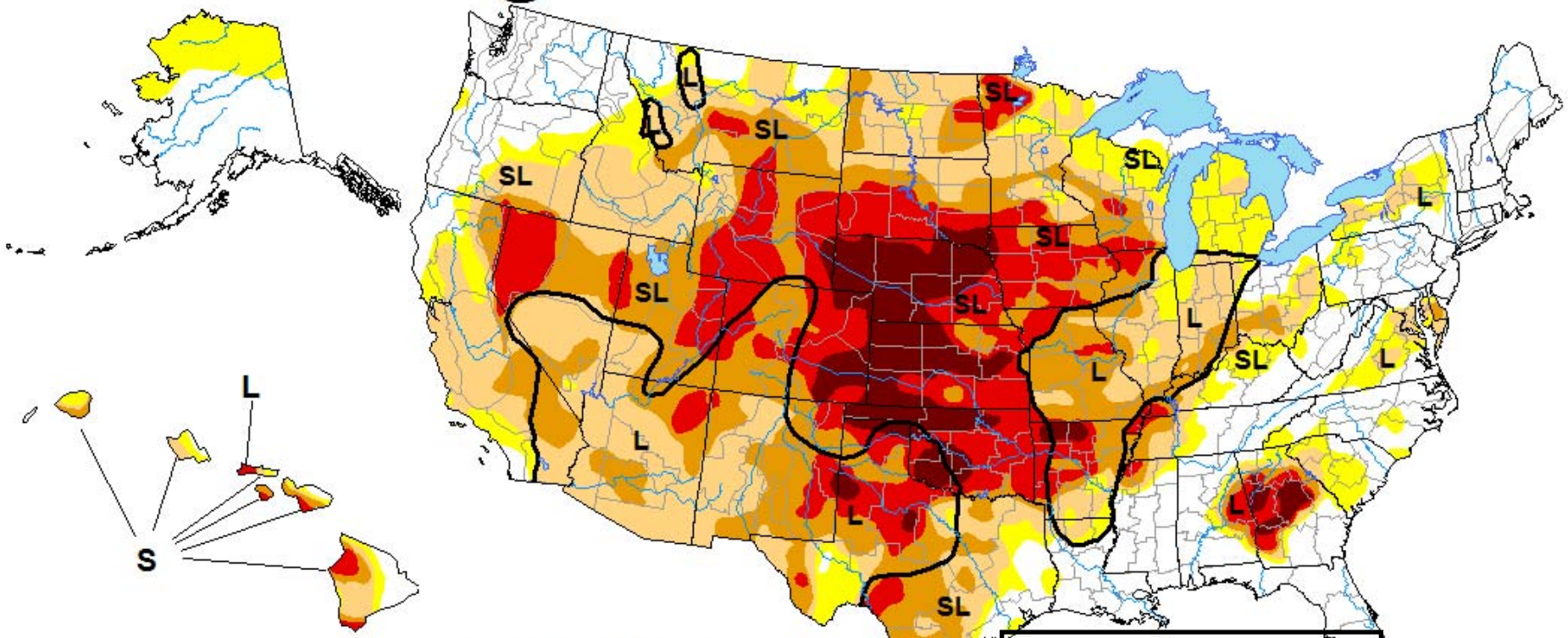
http://droughtmonitor.unl.edu/

Released Thursday, July 26, 2012

Author: Richard Heim NOAA/NESDIS/NCDC

U.S. Drought Monitor

September 25, 2012
Valid 8 a.m. EDT



Intensity:
- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

~ Delineates dominant impacts

S = Short-Term, typically <6 months (e.g. agriculture, grasslands)

L = Long-Term, typically >6 months (e.g. hydrology, ecology)

Sep. 25, 2012: USDM record with 65.45% of CONUS in drought.

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu/

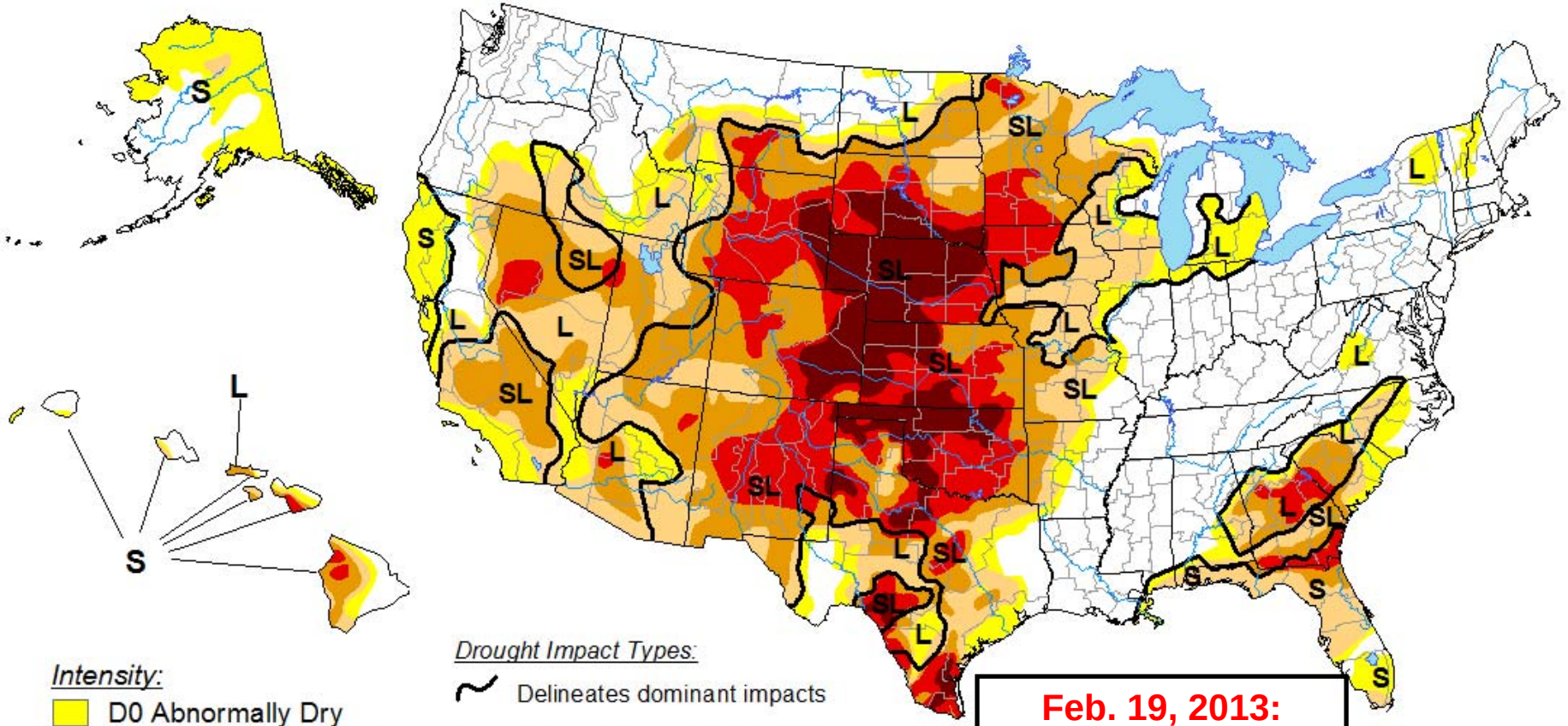
USDA National Drought Mitigation Center

Released Thursday, September 27, 2012

Author: Anthony Artusa, NOAA/NWS/NCEP/CPC

U.S. Drought Monitor

February 19, 2013
Valid 8 a.m. EST



Intensity:
- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

~ Delineates dominant impacts

S = Short-Term, typically <6 months (e.g. agriculture, grasslands)

L = Long-Term, typically >6 months (e.g. hydrology, ecology)

Feb. 19, 2013: 55.82% of CONUS in drought.

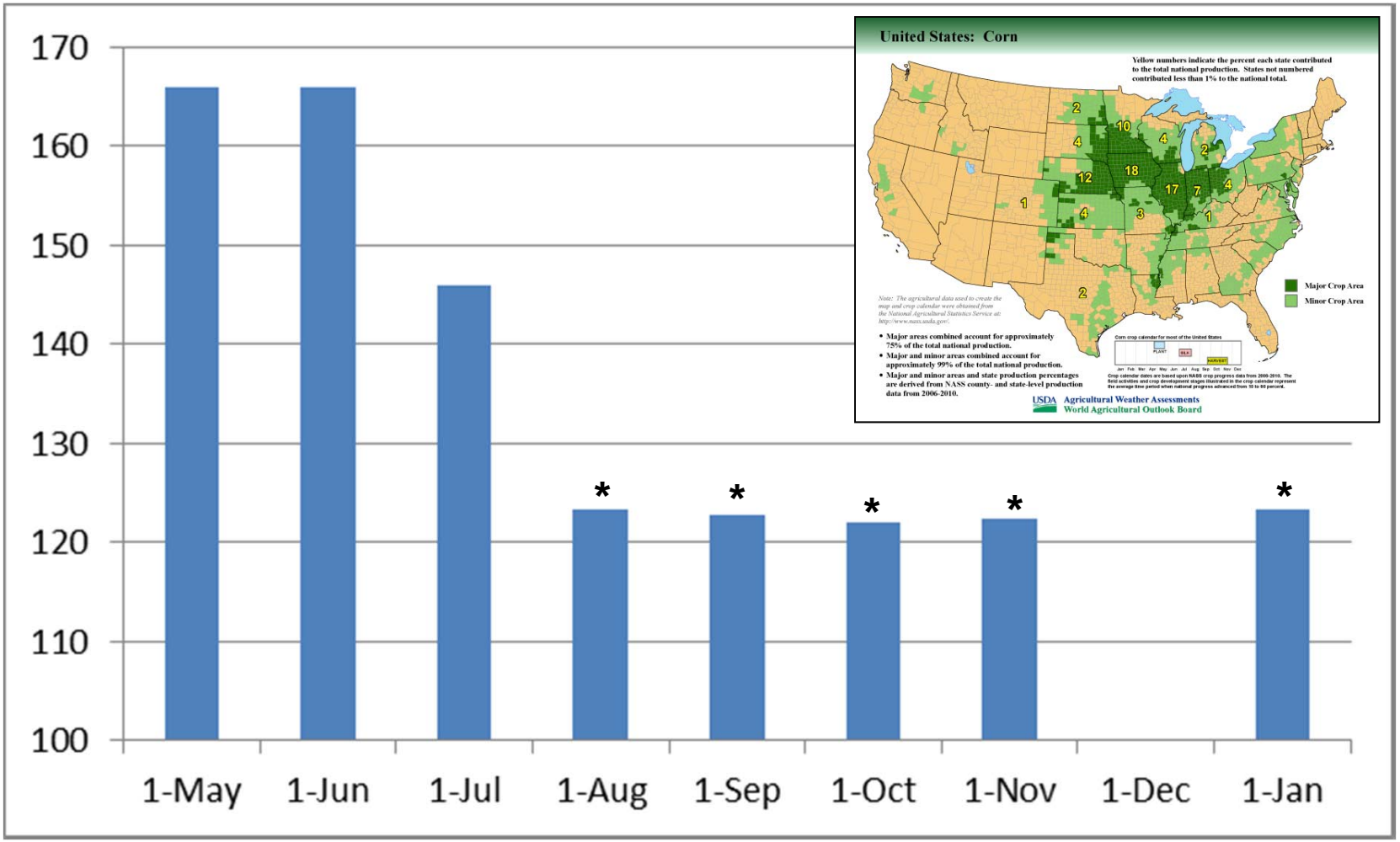
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu/

Released Thursday, February 21, 2013

Author: Brian Fuchs, National Drought Mitigation Center

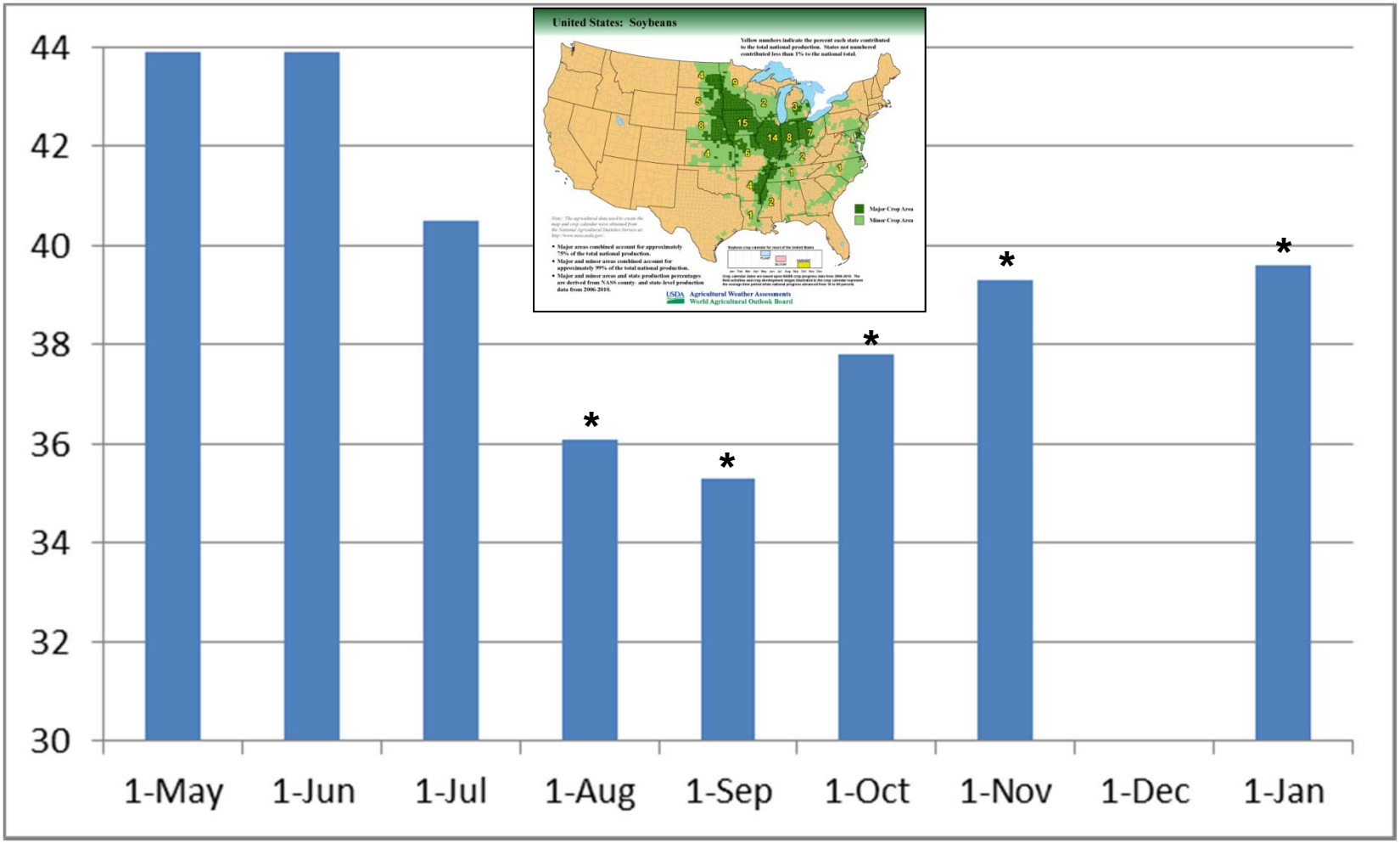
2012 U.S. Corn Yield Forecast (Bushels / Acre)



*** Based on field surveys**

Source: USDA

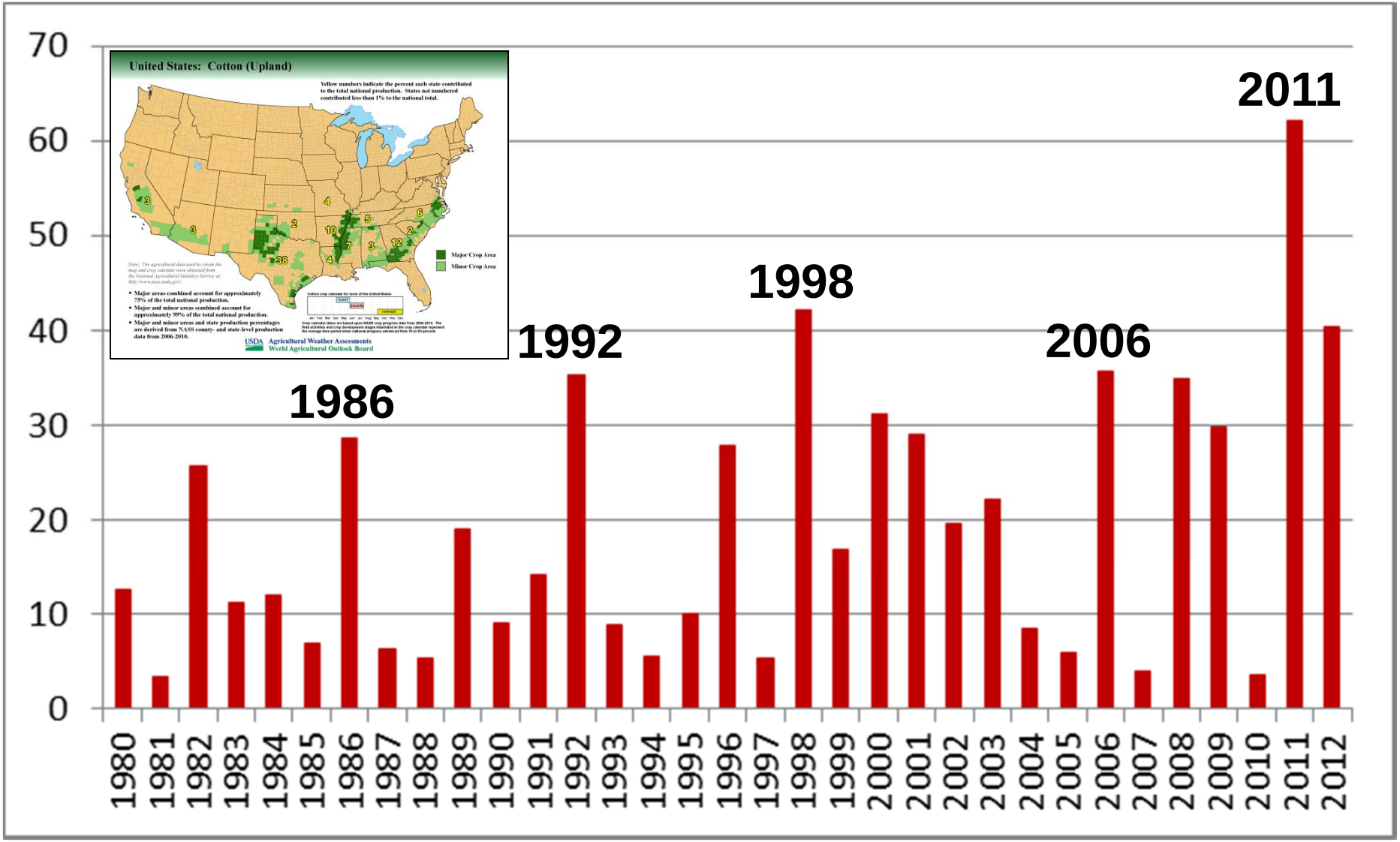
2012 U.S. Soybean Yield Forecast (Bushels / Acre)

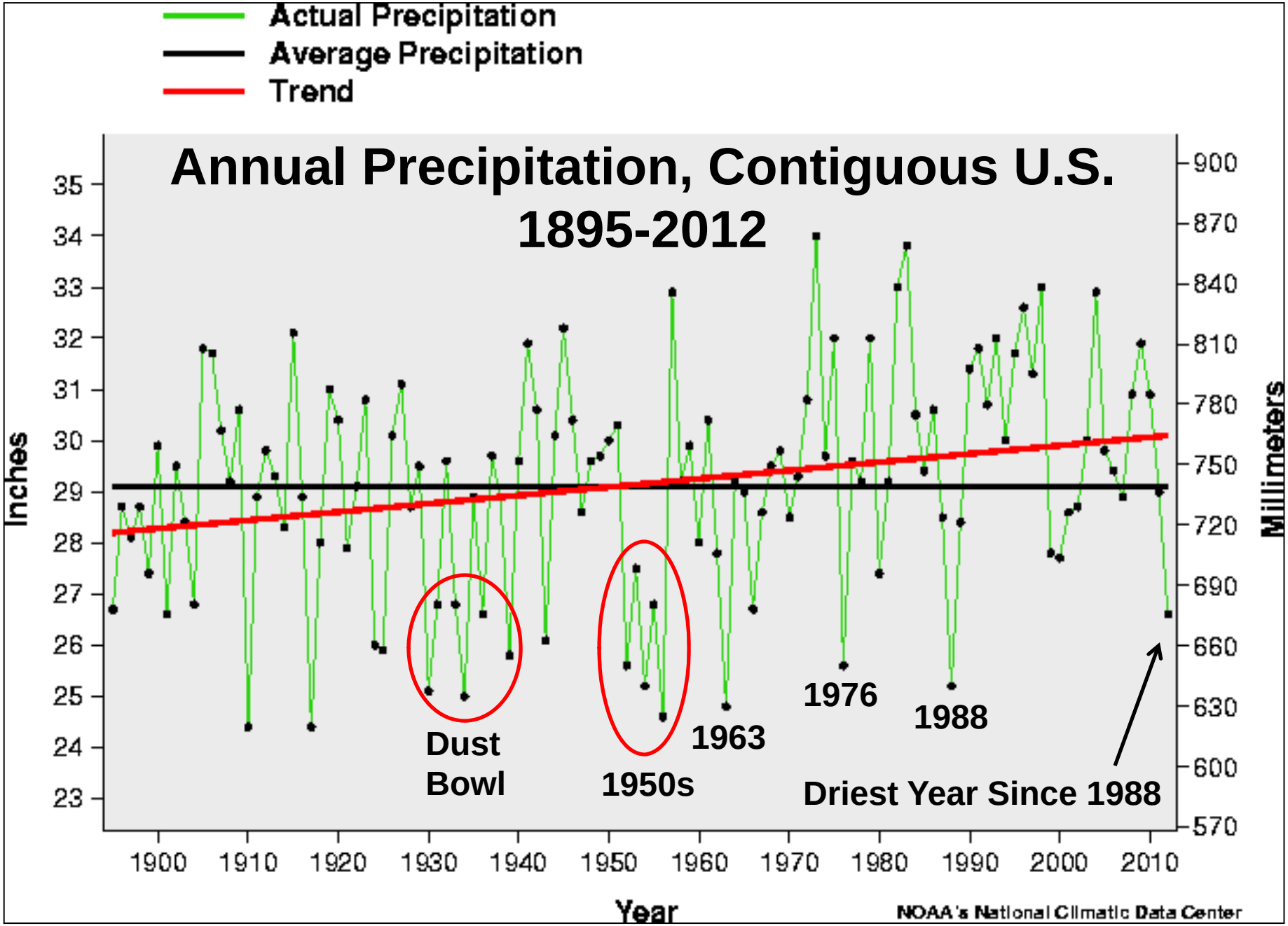


*** Based on field surveys**

Source: USDA

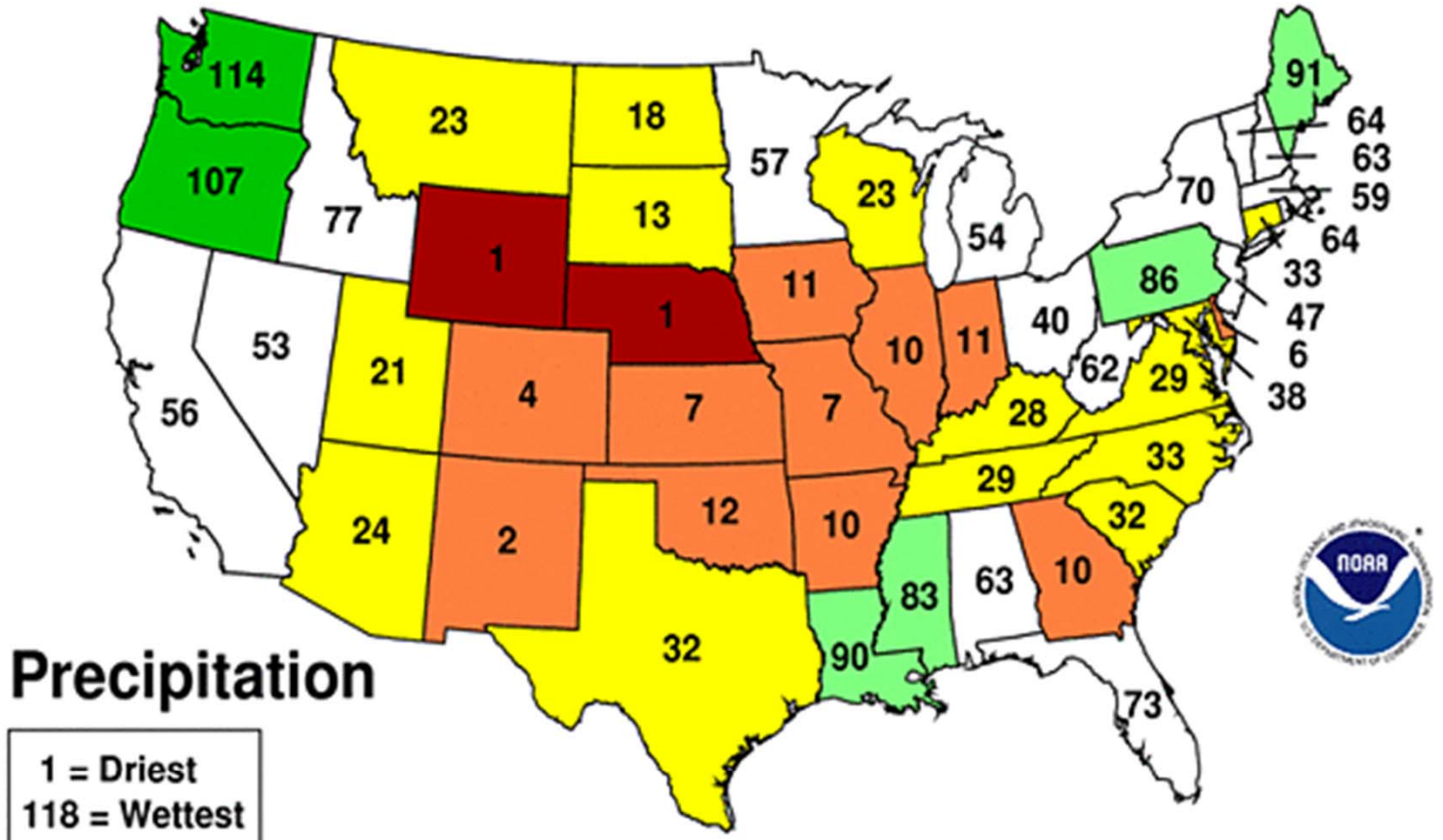
Percent Texas Cotton Abandonment 1980-2012




Actual Precipitation
Average Precipitation
Trend
Annual Precipitation, Contiguous U.S.
1895-2012
Inches
Millimeters
35
34
33
32
31
30
29
28
27
26
25
24
23
900
870
840
810
780
750
720
690
660
630
600
570
1900
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
2010
Year
Dust Bowl
1950s
1963
1976
1988
Driest Year Since 1988
NOAA's National Climatic Data Center

January-December 2012 Statewide Ranks

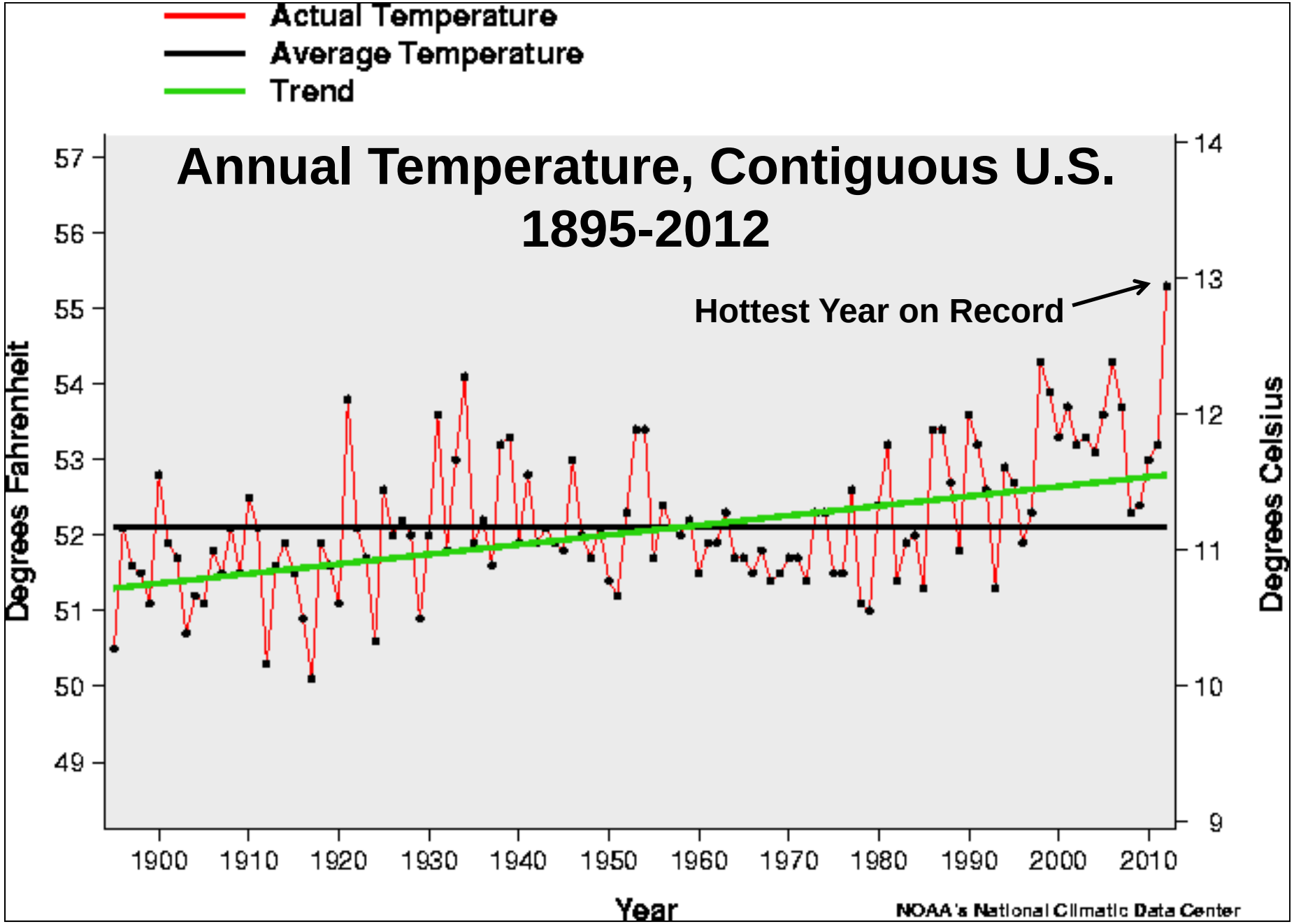
National Climatic Data Center/NESDIS/NOAA



Precipitation

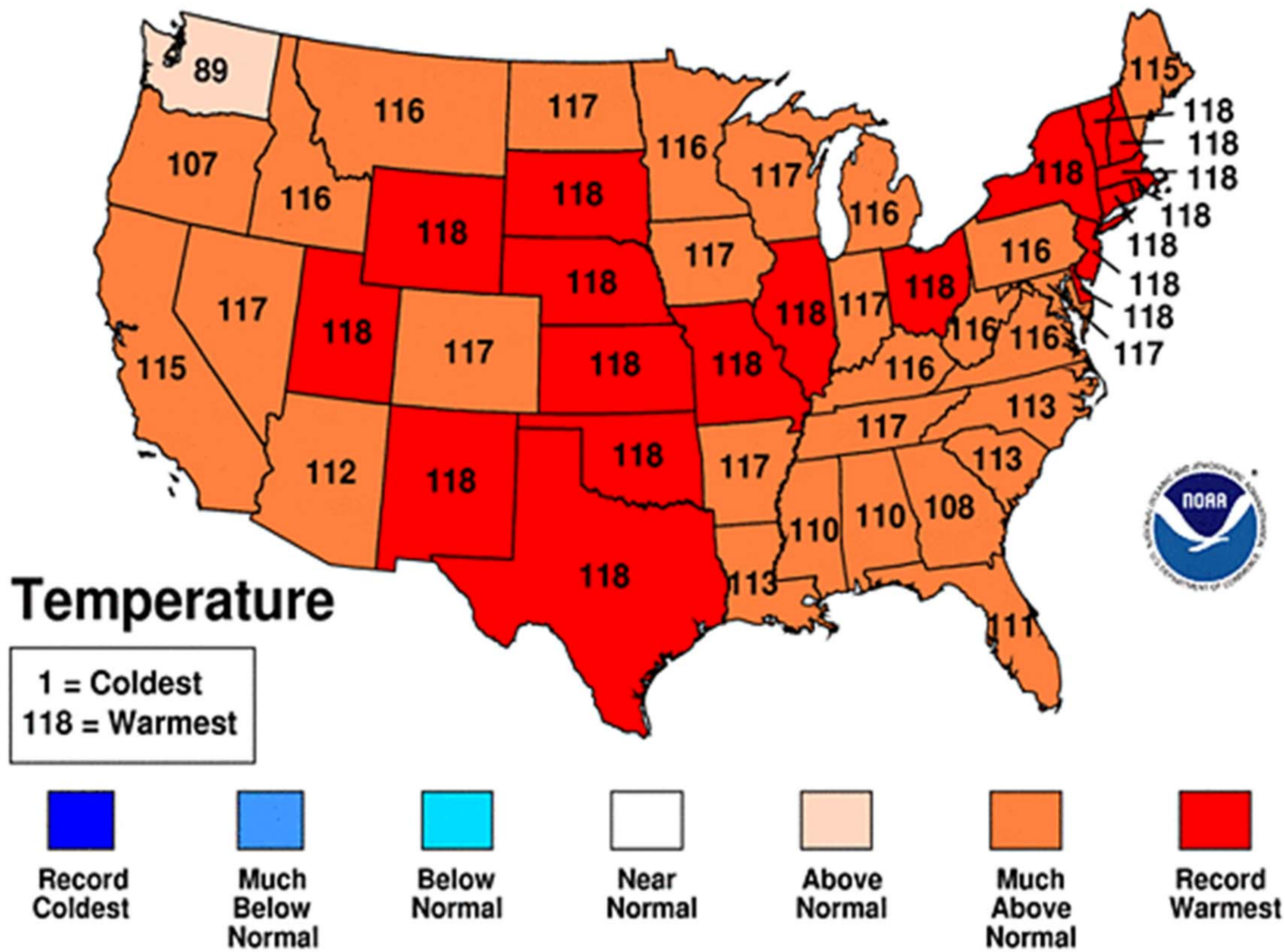
1 = Driest
118 = Wettest

Record Driest	Much Below Normal	Below Normal	Near Normal	Above Normal	Much Above Normal	Record Wettest


Actual Temperature
Average Temperature
Trend
Annual Temperature, Contiguous U.S.
1895-2012
Hottest Year on Record
Degrees Fahrenheit
Degrees Celsius
57
56
55
54
53
52
51
50
49
14
13
12
11
10
9
1900
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
2010
Year
NOAA's National Climatic Data Center

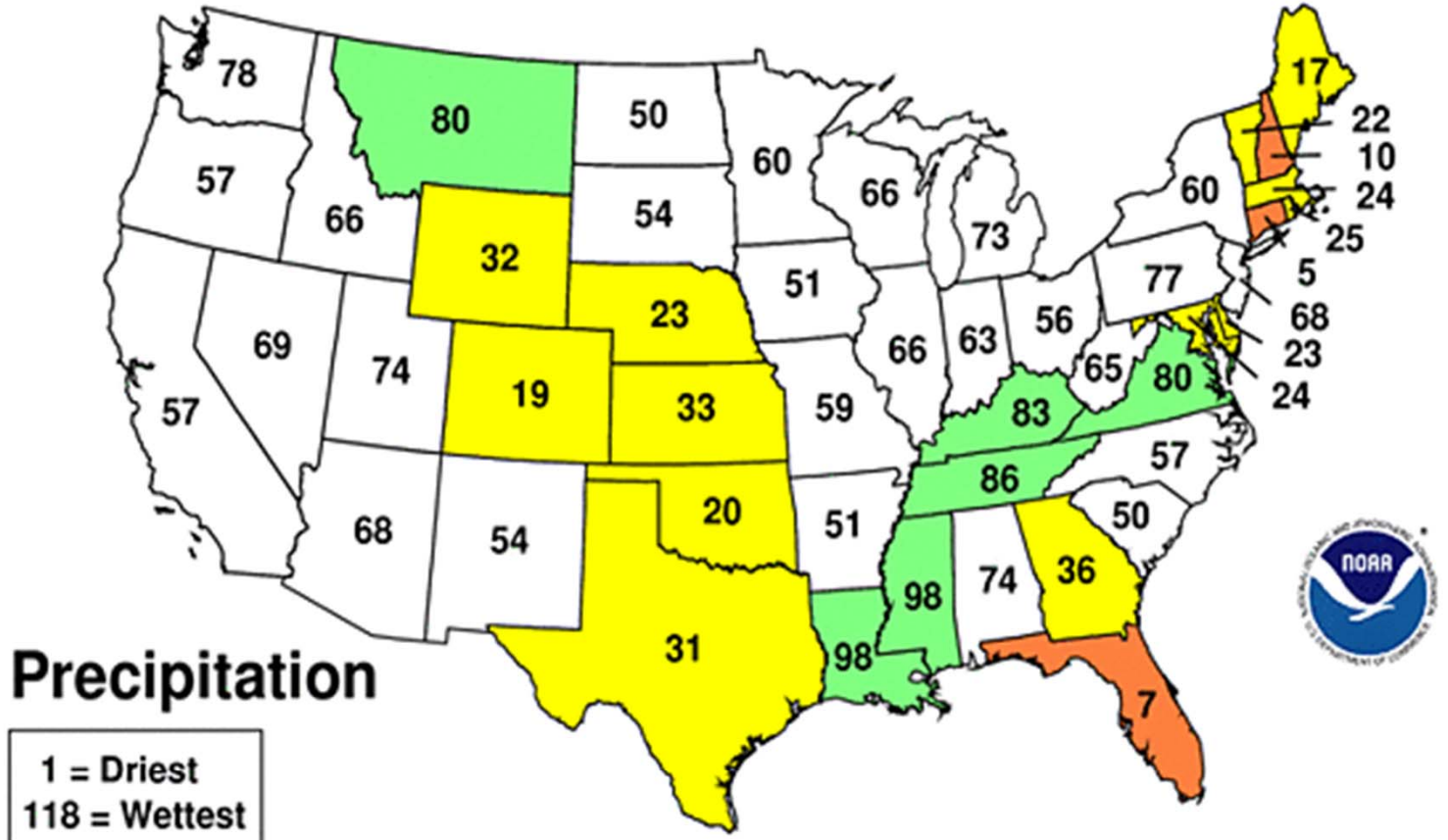
January-December 2012 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



Nov 2012-Jan 2013 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



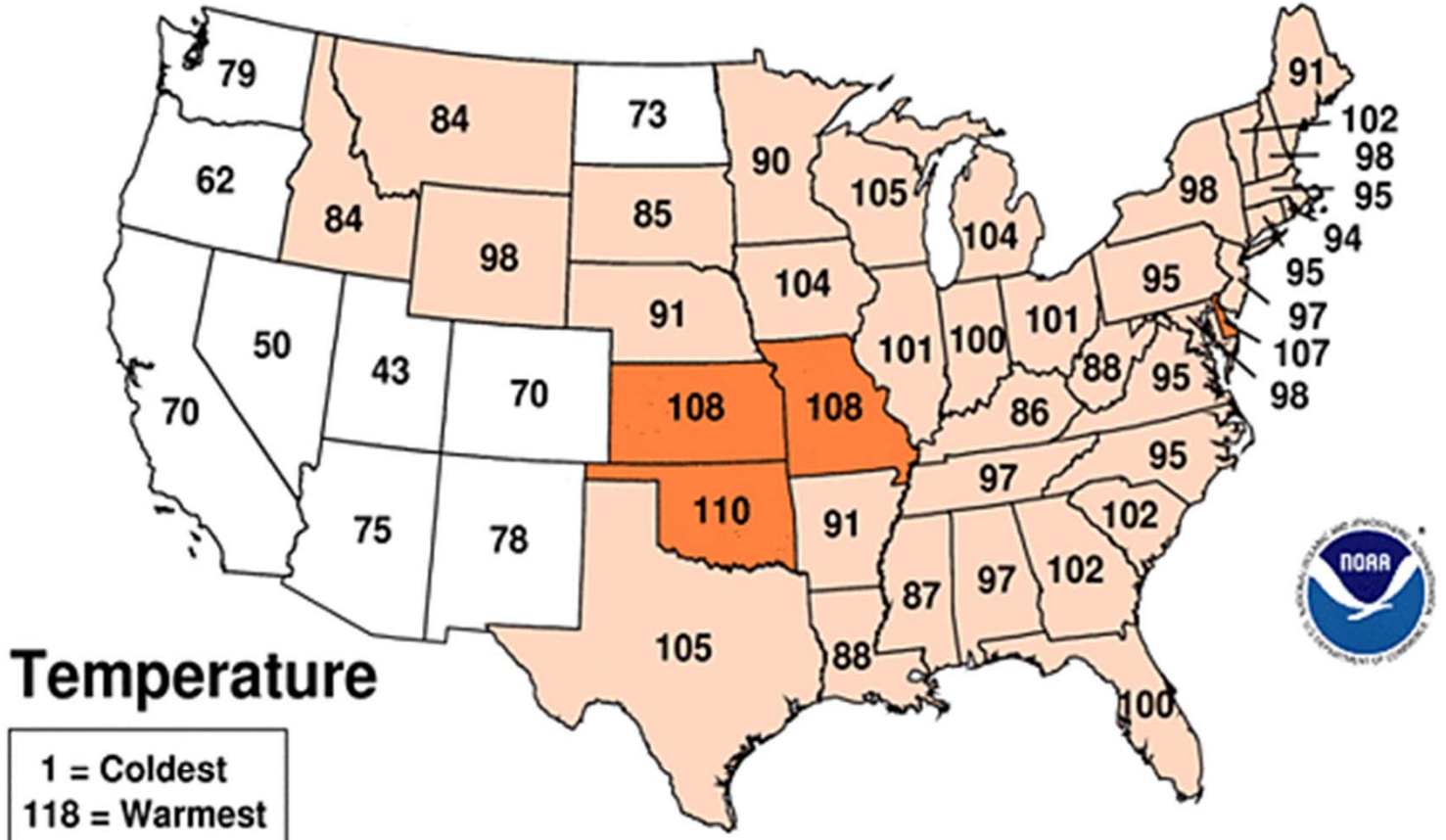
Precipitation

1 = Driest
118 = Wettest

Record Driest	Much Below Normal	Below Normal	Near Normal	Above Normal	Much Above Normal	Record Wettest

Nov 2012-Jan 2013 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



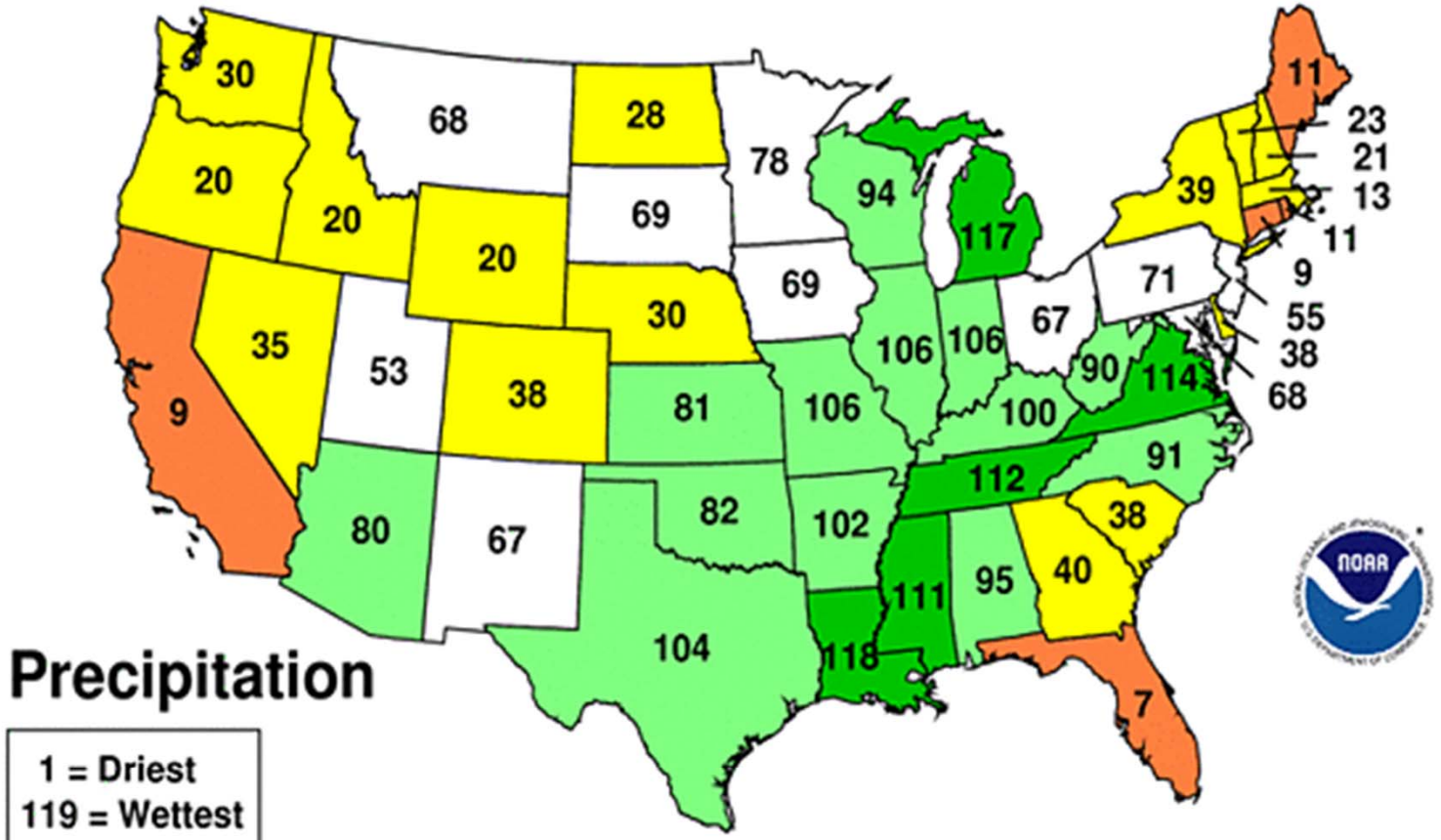
Temperature

1 = Coldest
118 = Warmest

Record Coldest	Much Below Normal	Below Normal	Near Normal	Above Normal	Much Above Normal	Record Warmest

January 2013 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



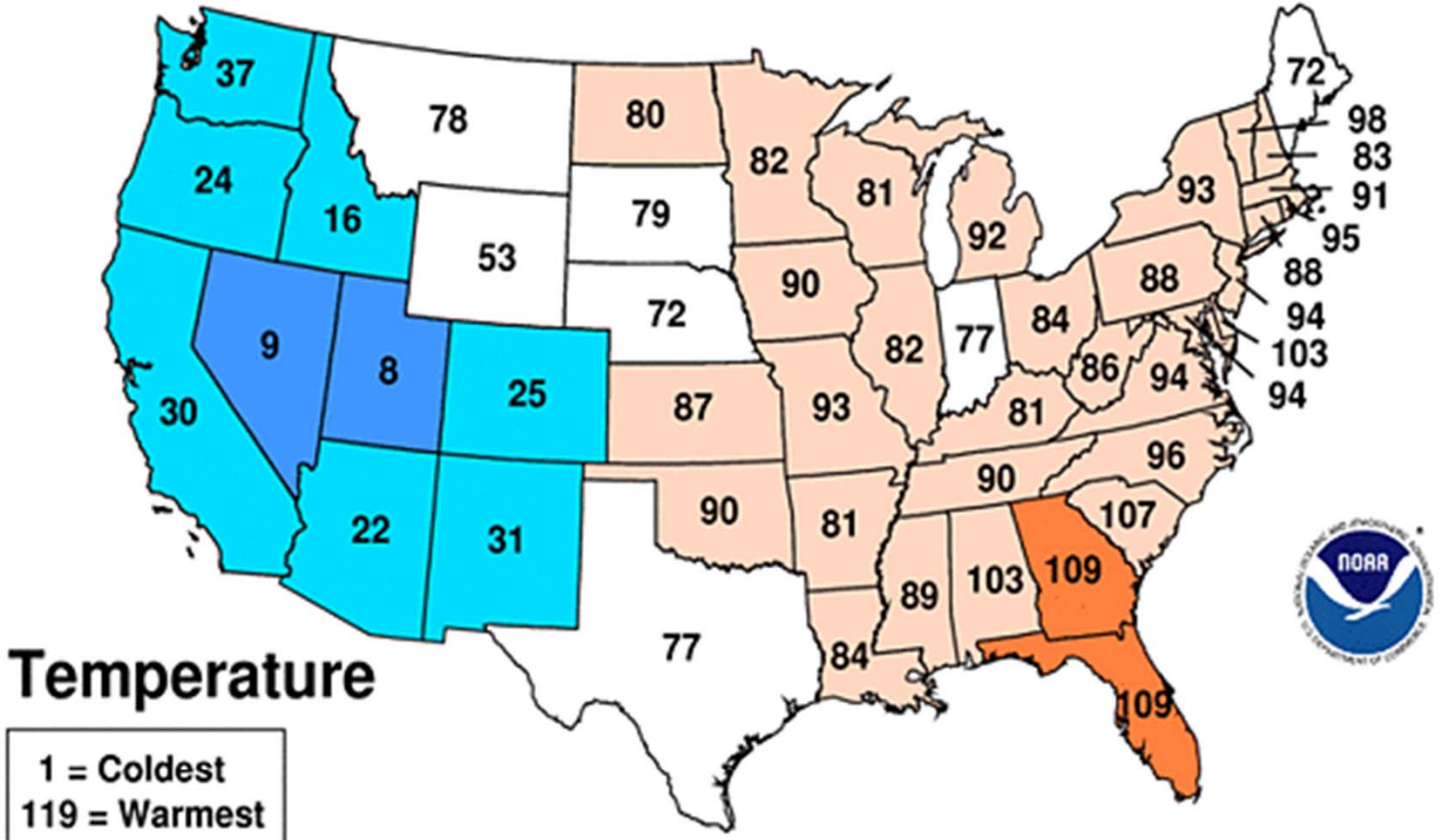
Precipitation

1 = Driest
119 = Wettest

Record Driest	Much Below Normal	Below Normal	Near Normal	Above Normal	Much Above Normal	Record Wettest

January 2013 Statewide Ranks

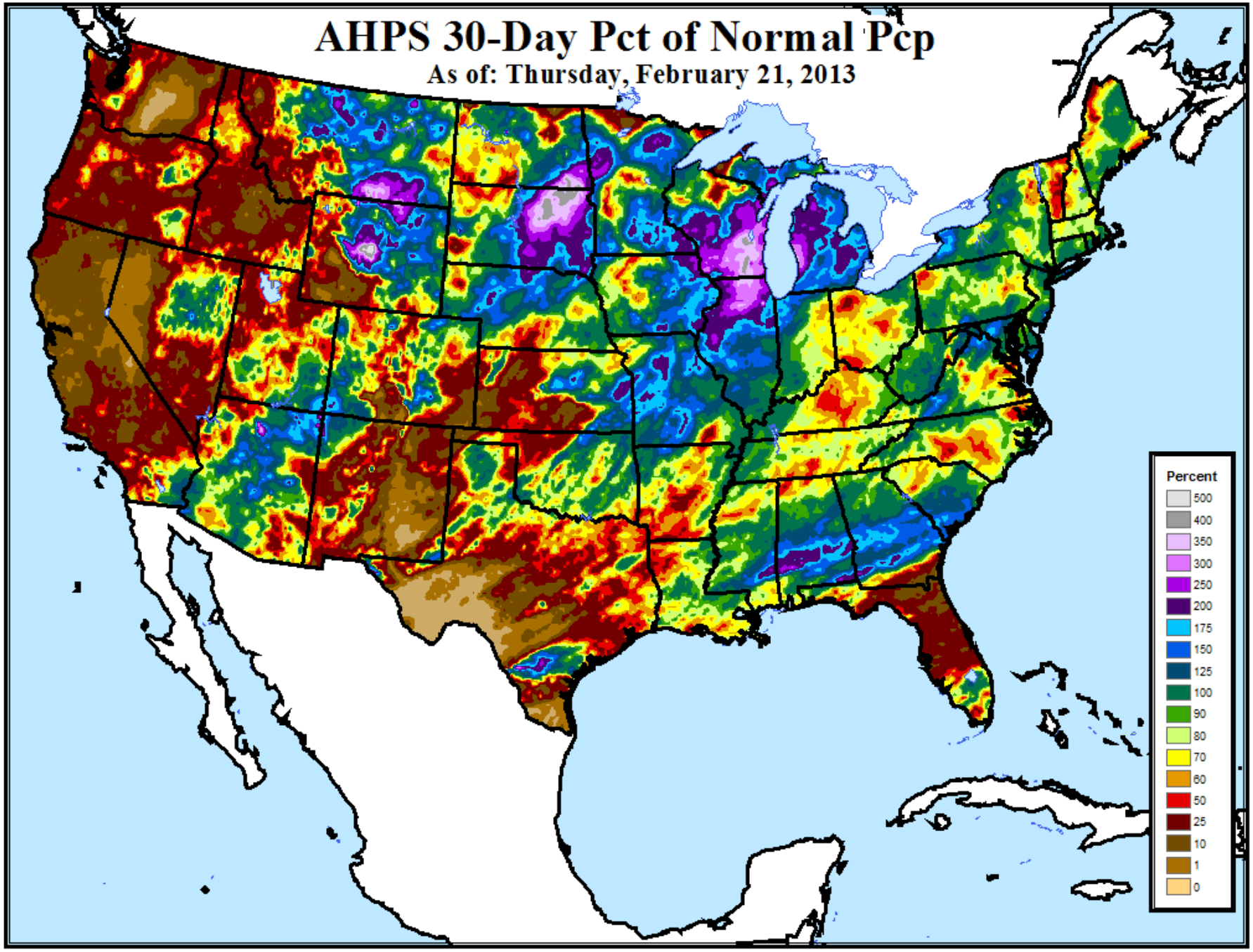
National Climatic Data Center/NESDIS/NOAA

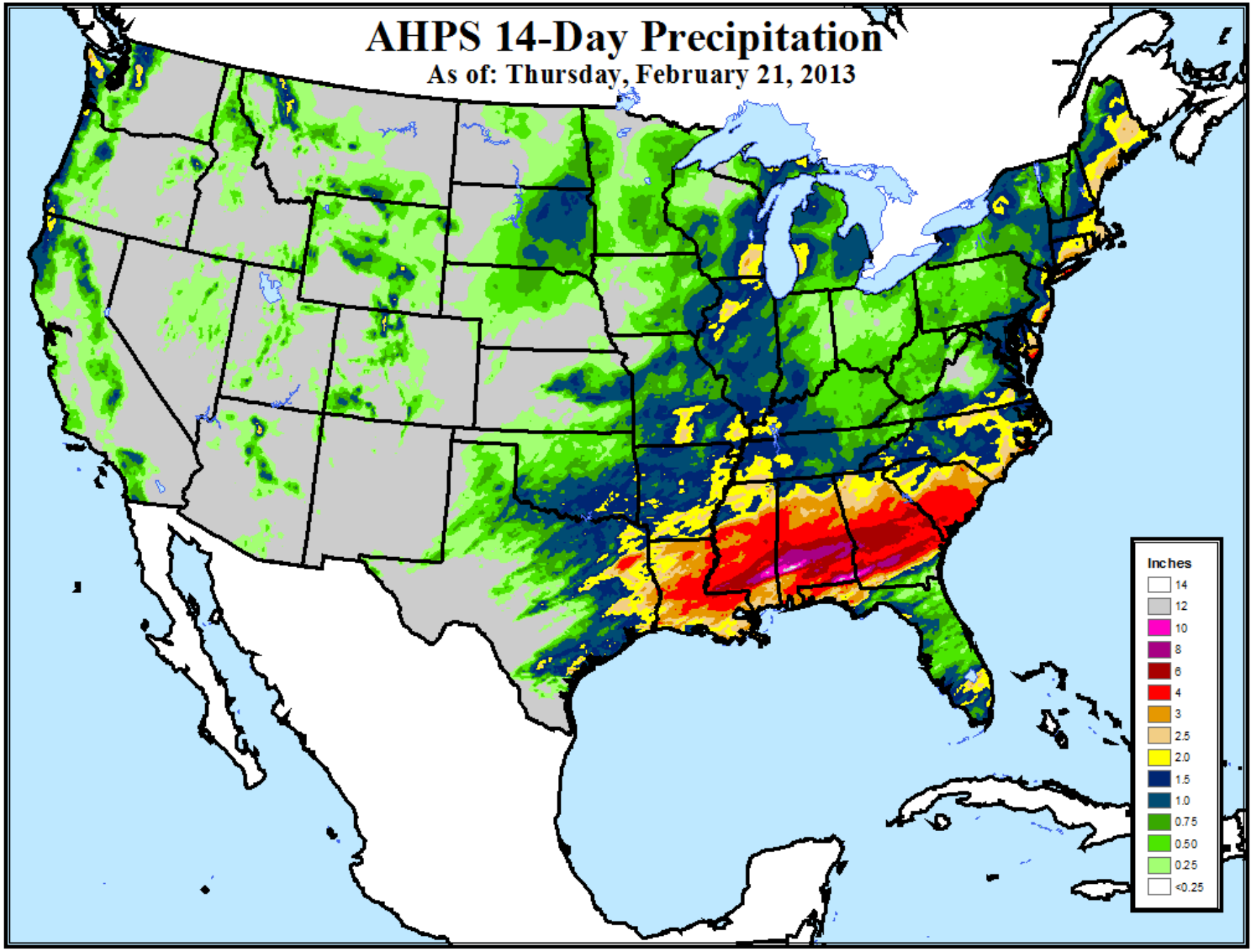


Temperature

1 = Coldest
119 = Warmest

Record Coldest	Much Below Normal	Below Normal	Near Normal	Above Normal	Much Above Normal	Record Warmest

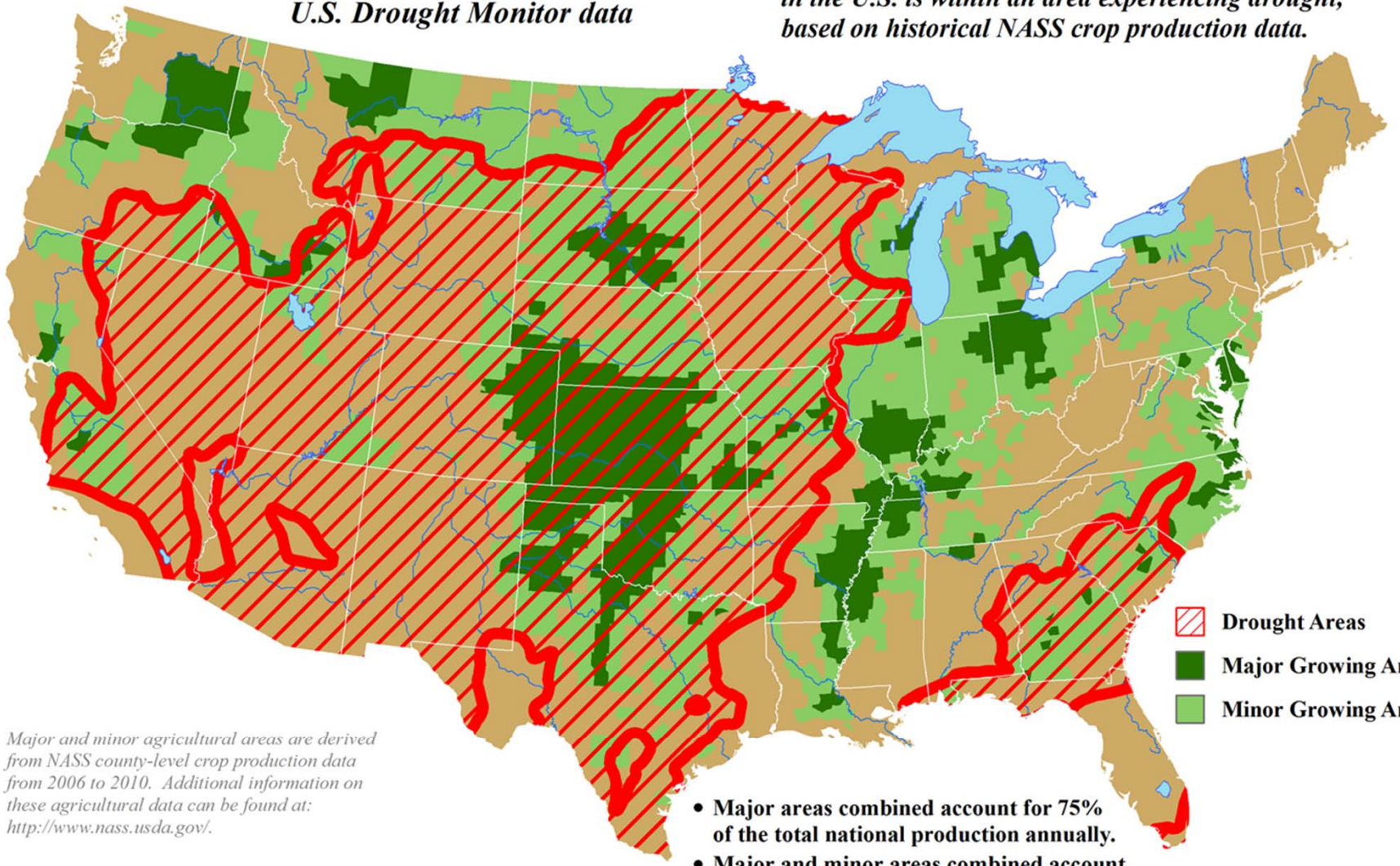

AHPS 30-Day Pct of Normal Pcp
As of: Thursday, February 21, 2013
Percent
500
400
350
300
250
200
175
150
125
100
90
80
70
60
50
25
10
1
0


AHPS 14-Day Precipitation
As of: Thursday, February 21, 2013
Inches
14
12
10
8
6
4
3
2.5
2.0
1.5
1.0
0.75
0.50
0.25
<0.25

U.S. Winter Wheat Areas Experiencing Drought

Reflects February 12, 2013
U.S. Drought Monitor data

Approximately 59% of the winter wheat grown in the U.S. is within an area experiencing drought, based on historical NASS crop production data.



- **Major areas combined account for 75% of the total national production annually.**
- **Major and minor areas combined account for 99% of the total national production annually.**

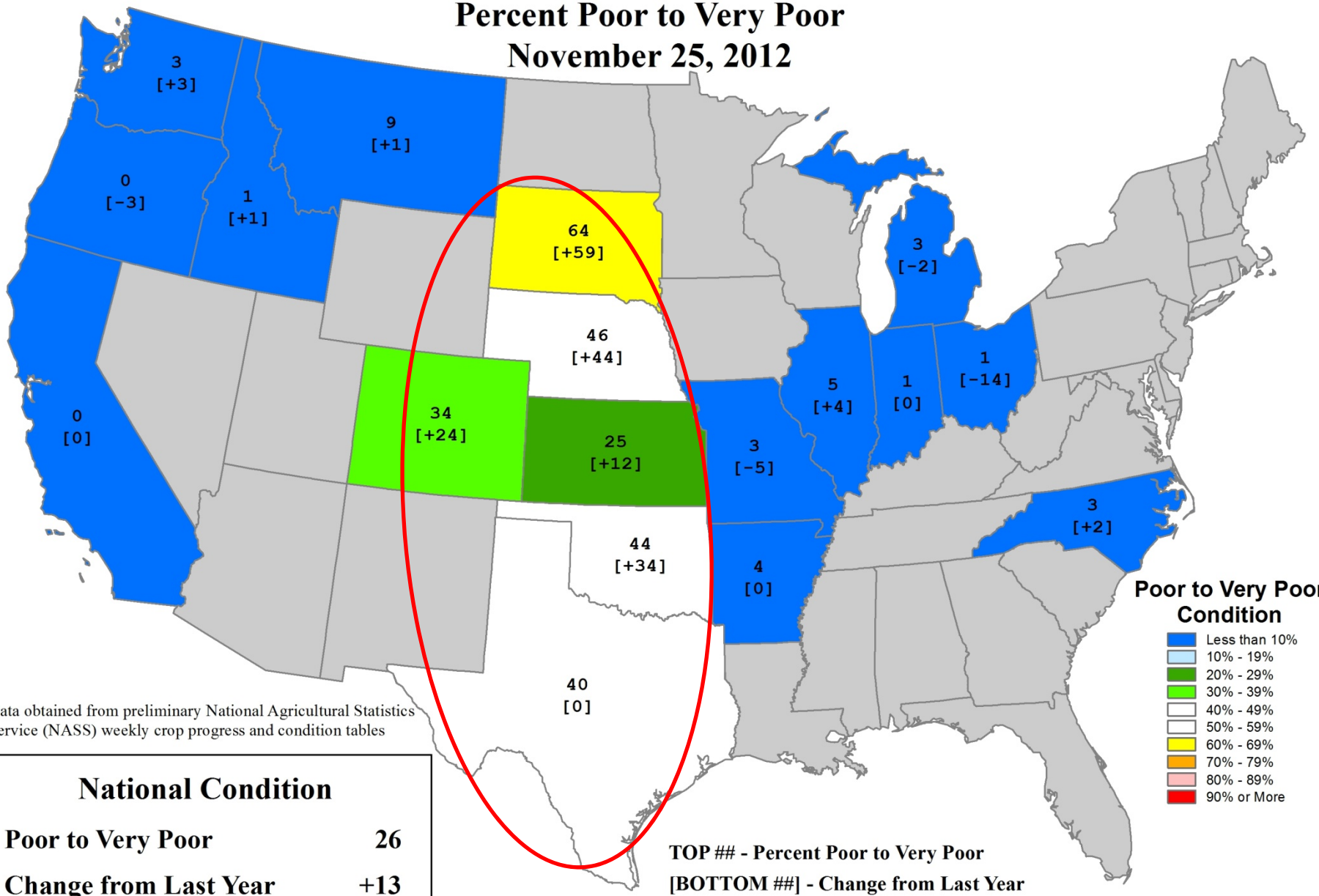
Major and minor agricultural areas are derived from NASS county-level crop production data from 2006 to 2010. Additional information on these agricultural data can be found at: http://www.nass.usda.gov/.

Mapped drought areas are derived from the U.S. Drought Monitor product and do not depict the intensity of drought in any particular location. More information on the Drought Monitor can be found at: http://droughtmonitor.unl.edu/.

USDA Agricultural Weather Assessments
World Agricultural Outlook Board

U.S. Winter Wheat Conditions

Percent Poor to Very Poor
November 25, 2012



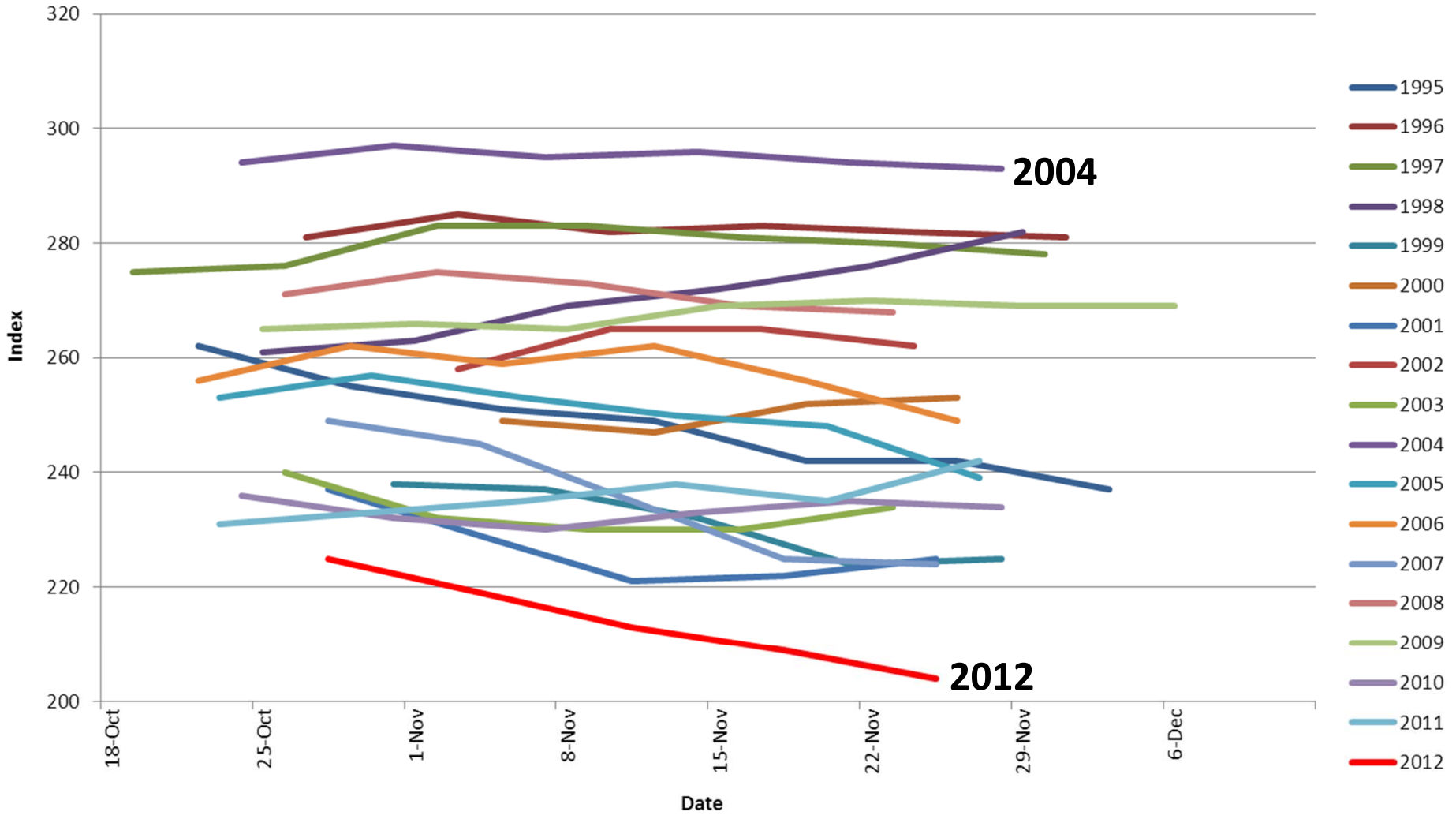
Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Condition	
Poor to Very Poor	26
Change from Last Year	+13

TOP ## - Percent Poor to Very Poor
[BOTTOM ##] - Change from Last Year

USDA Agricultural Weather Assessments
World Agricultural Outlook Board

U.S. WINTER WHEAT Condition Index



Based on NASS crop progress data.

Index Weighting: Excellent = 4; Good = 3; Fair = 2; Poor = 1; Very Poor = 0

Winter Wheat Conditions
January 27, 2013

State	VP	P	F	G	EX
Oklahoma	30	39	26	5	0
Kansas	14	25	41	19	1
Nebraska	15	35	42	8	0
S. Dakota	16	50	31	3	0
Montana	2	7	50	39	2
Illinois	0	3	30	60	7

Rangeland and Pasture, Very Poor to Poor:

Kansas, 85%; Oklahoma, 82%

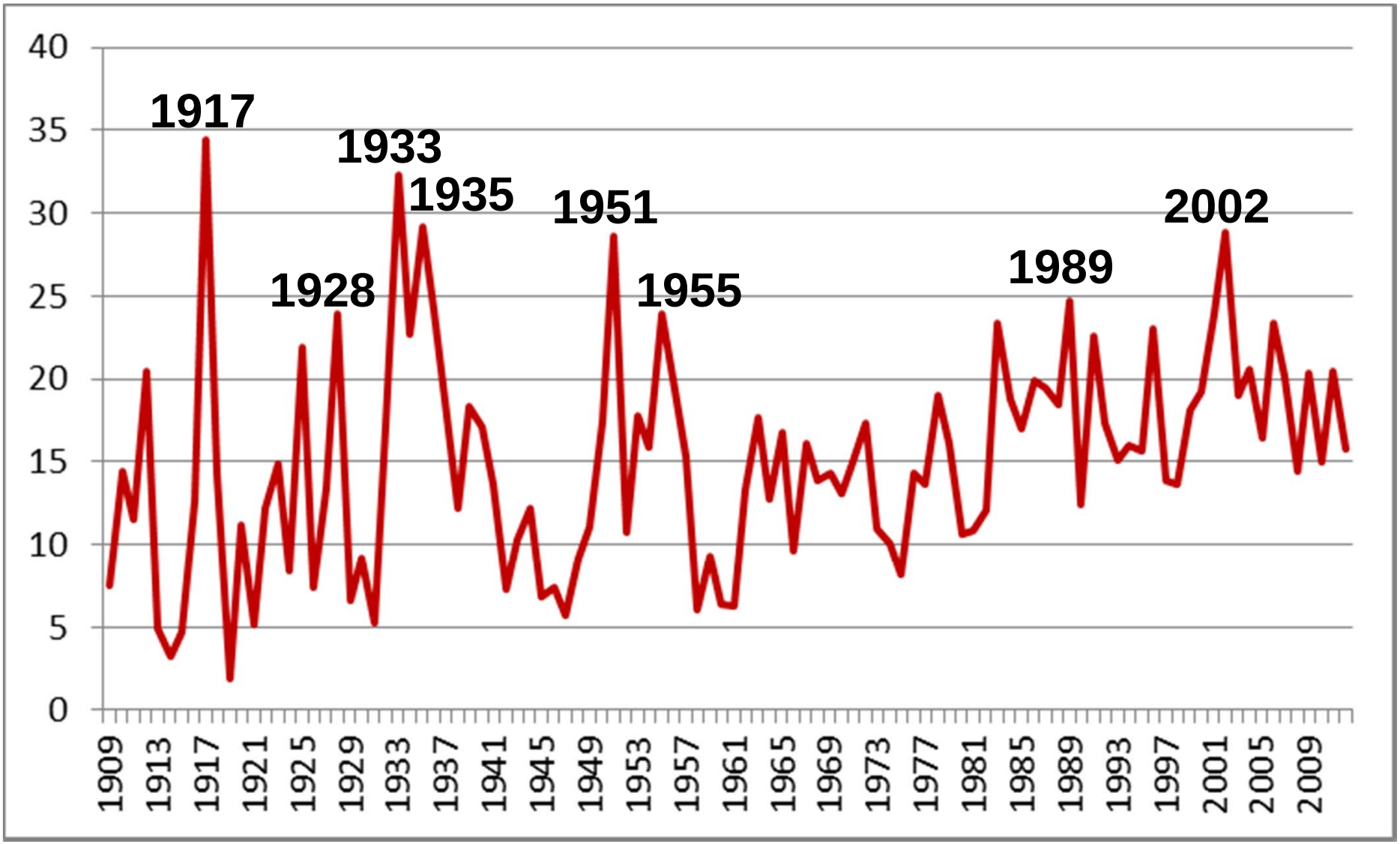
Texas Winter Wheat Conditions
February 17, 2013

State	VP	P	F	G	EX
Texas	23	26	37	13	1

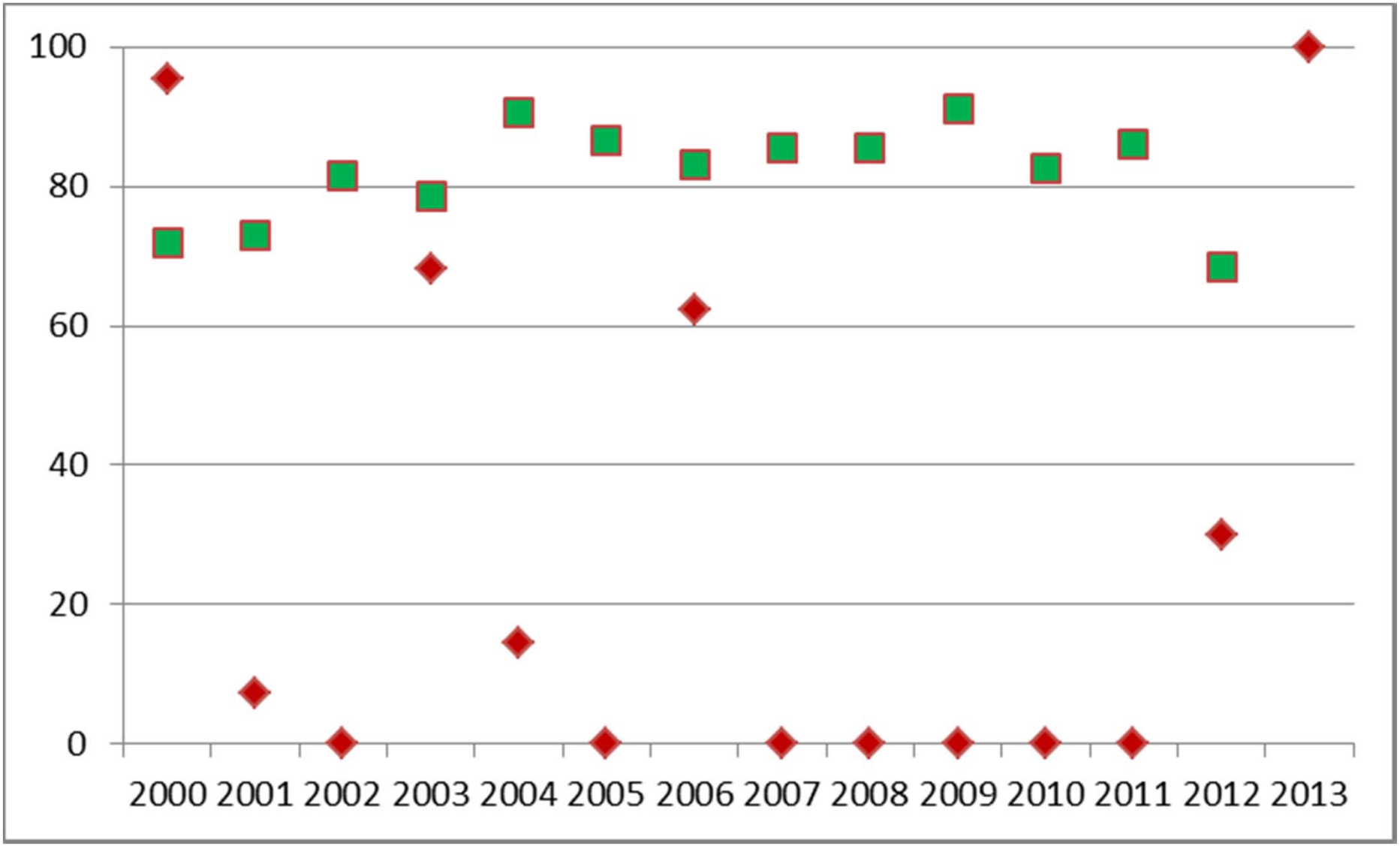
Rangeland and Pasture, Very Poor to Poor:

Texas, 53%; Florida, 50%; Arizona, 44%

Percent U.S. Winter Wheat Abandonment 1909-2012



Iowa in Drought in Mid-February and Iowa Corn Yield (Divided by Two)



Thank you!

- Contact info

  - e-mail: brippey@oce.usda.gov
  - phone: (202) 720-2397